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PHYSICS

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### Time Remaining: 45/45 (Minutes)

Q.1

Test 2 Motion & Force

Physics Unit Wise

The rate of change of momentum of a freely falling body in a Non-resistive medium is:

- A) Equal to its weight
- B) Greater than mg
- C) Less than mg
- D) Zero

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Correct Answer:

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#### No internet connection **Physics**

#### Time Remaining: 44/45 (Minutes)

Q.2

Test 2 Motion & Force

**Physics Unit Wise** 

A projectile is fired at 600 with 100m s-1. Velocity at maximum height is

A) 0 ms-1

B) 25 ms-1

C) 50 m s-1

D) 20 ms-1

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Correct Answer:

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## Time Remaining: 44/45 (Minutes)

Q.3

Test 2 Motion & Force

Physics Unit Wise

Which of following changes when particle is moving with uniform velocity?

A) speed

B) acceleration

C) velocity

D) position vector

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Correct Answer:

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## Time Remaining: 44/45 (Minutes)

Q.4

Test 2 Motion & Force

Physics Unit Wise

A force of 25N acts on a body for 20 seconds. What will be the change in momentum

- A) 5Ns
- C) 200 Ns

- B) 500 Ns
- D) 800 Ns

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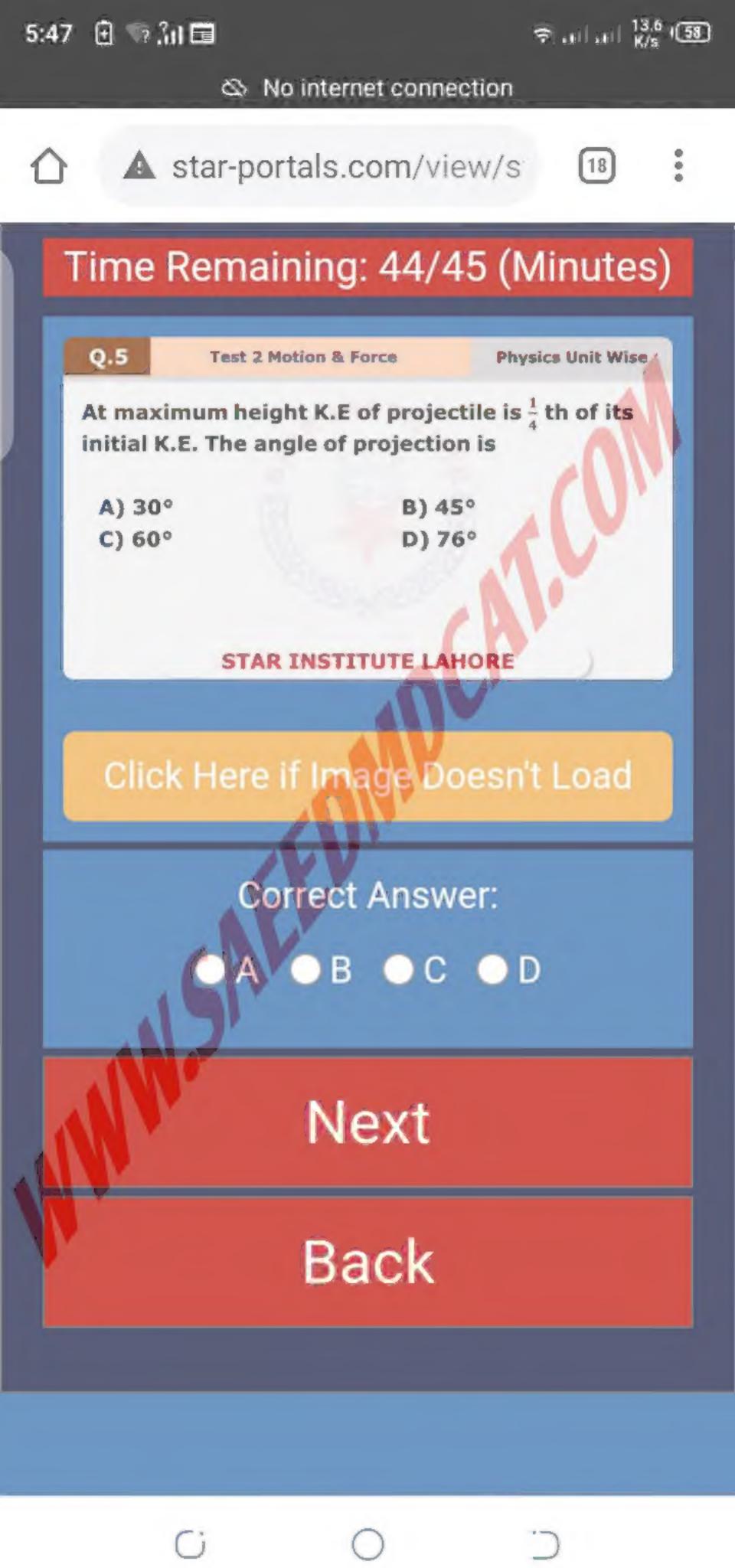
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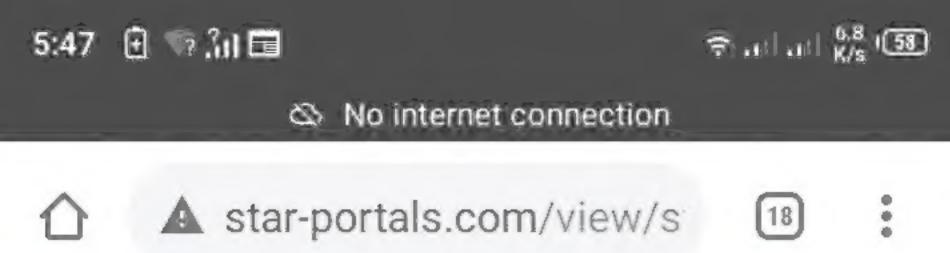
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# Time Remaining: 44/45 (Minutes)

Q.6 Physics Unit Wise Two balls have K.E ratio 2: 1 and masses ratio 2: 1. The ratio of their momentum is

Test 2 Motion & Force

- A) 2:1
- C) 4:1

- B) 1:2
- D) 1:4

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Correct Answer:

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## Time Remaining: 44/45 (Minutes)

Q.7

**Test 2 Motion & Force** 

Physics Unit Wise

A car is travelling with uniform acceleration along a straight road. The road has marker posts every 100 m. when the car passes one post, it has a speed of 10 ms<sup>-1</sup> and, when it passes the next one, its speed is 20 ms<sup>-1</sup>. What is the car's acceleration?

A) 0.67 ms-2

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B) 6.0 ms-2

C) 2.5 ms<sup>-2</sup>

D) 1.5 ms<sup>-2</sup>

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# Time Remaining: 44/45 (Minutes)

Q.8

**Test 2 Motion & Force** 

Physics Unit Wise

Which shows the correct relation between time of flight T and maximum height H?

A) 
$$H = \frac{gT^2}{8}$$

$$\mathbf{B)} \ H = \frac{8T^2}{g}$$

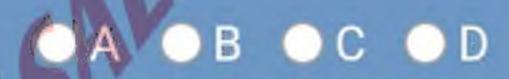
C) 
$$H = \frac{8g}{T^2}$$

D) 
$$H = \frac{\theta}{gT^2}$$

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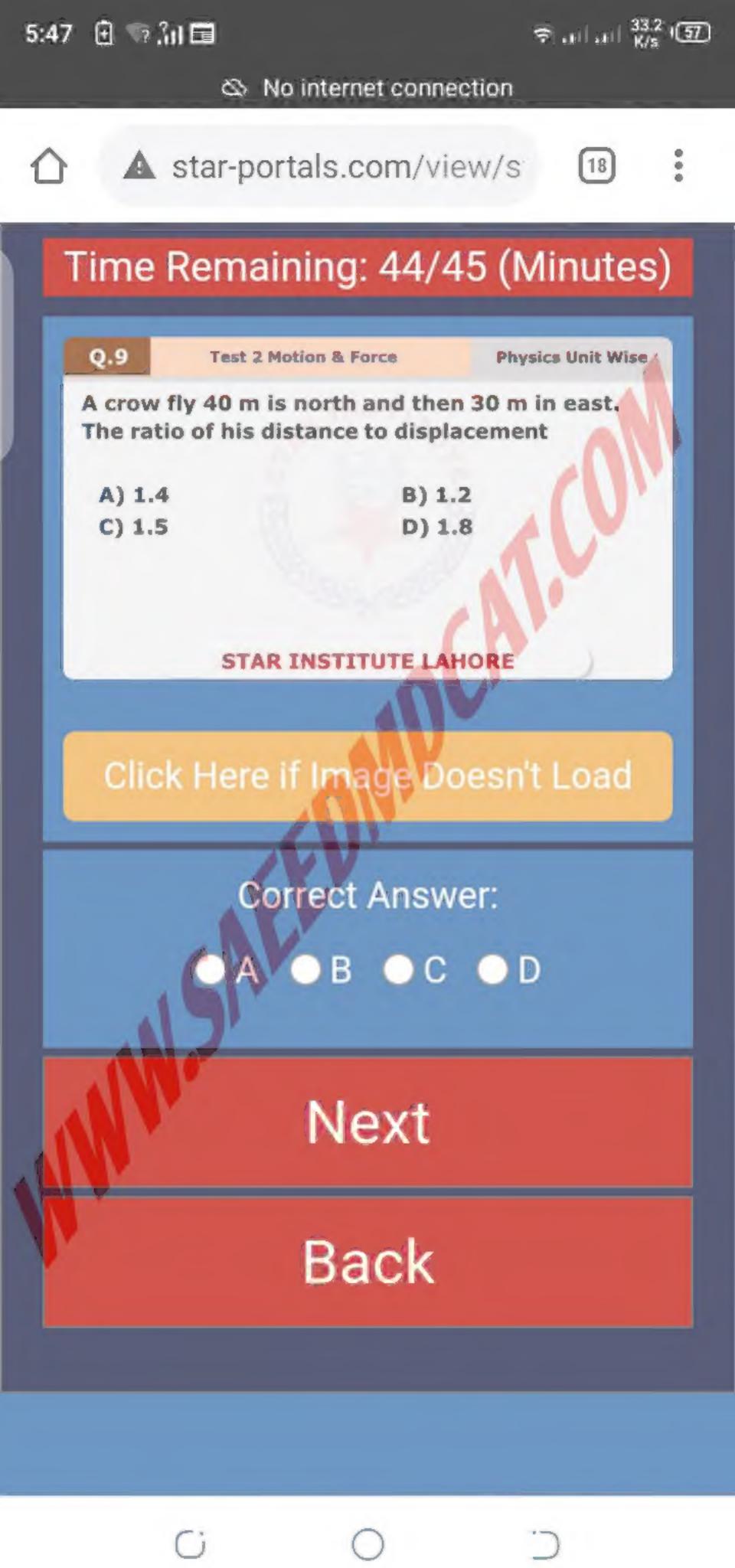
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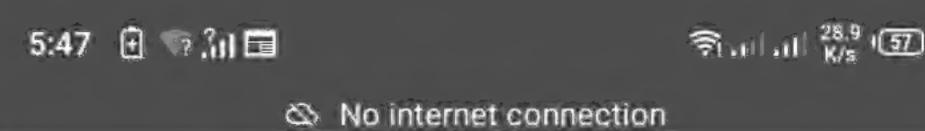


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Back

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## Time Remaining: 43/45 (Minutes)

Q.10

**Test 2 Motion & Force** 

Physics Unit Wise

What is rate of change of momentum when 4N force acts on a mass 2 kg for 2s

- A) 1 kg ms-2
- C) 4 kg ms-2

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- B) 2 kg ms-2
- D) 8 kg ms-2

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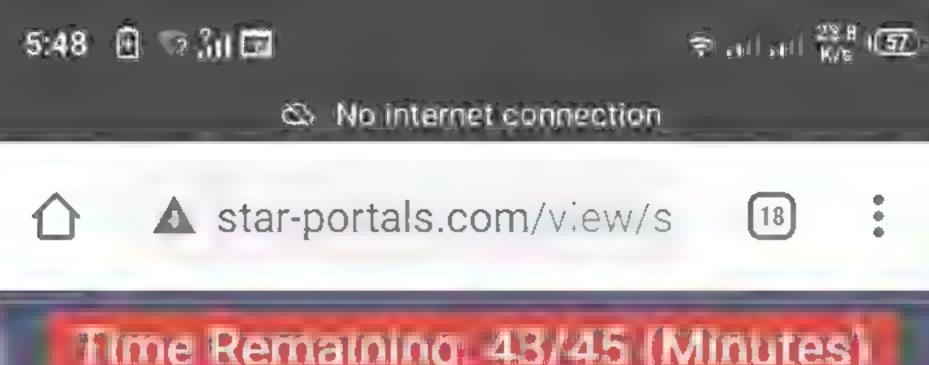
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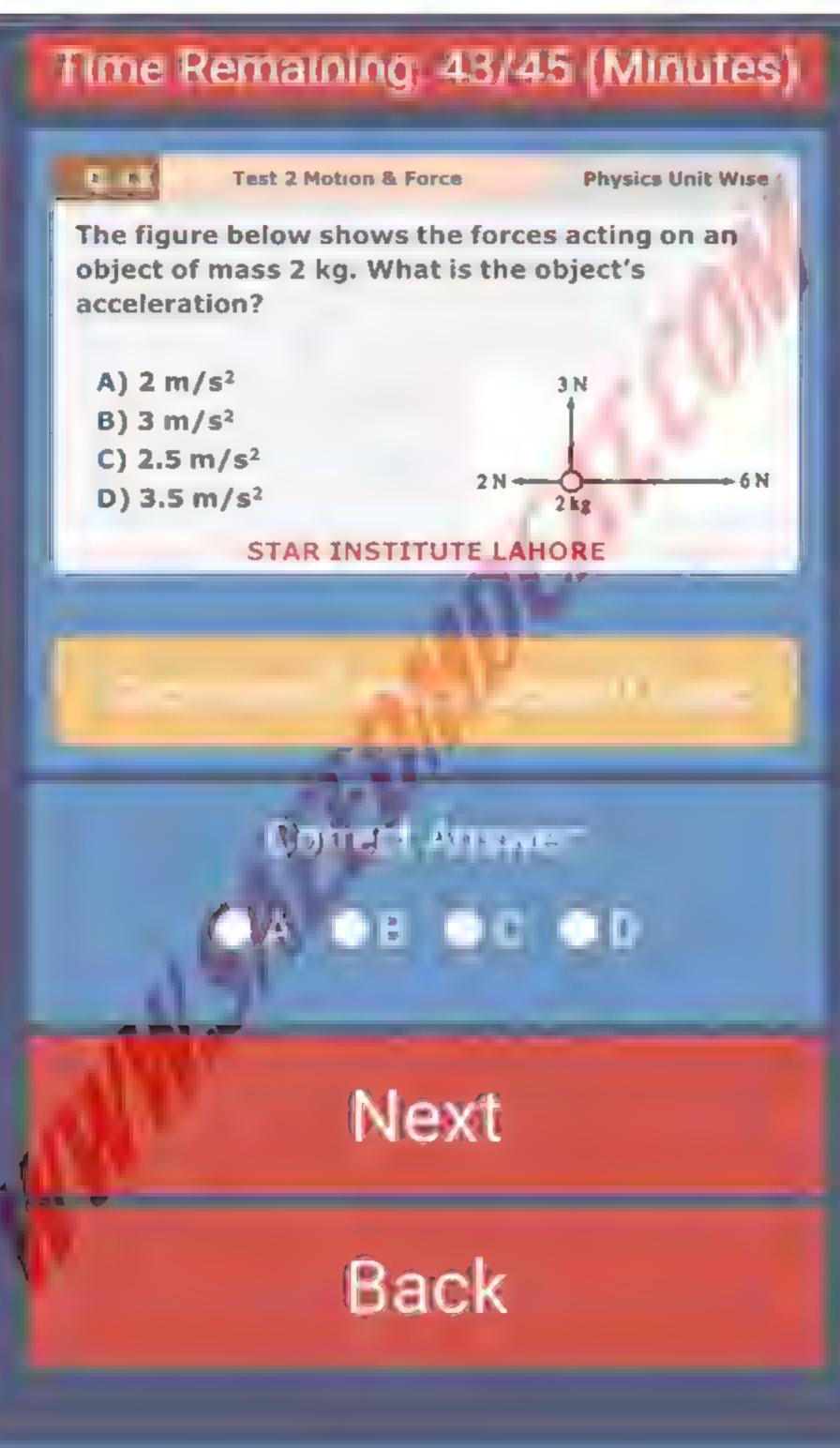
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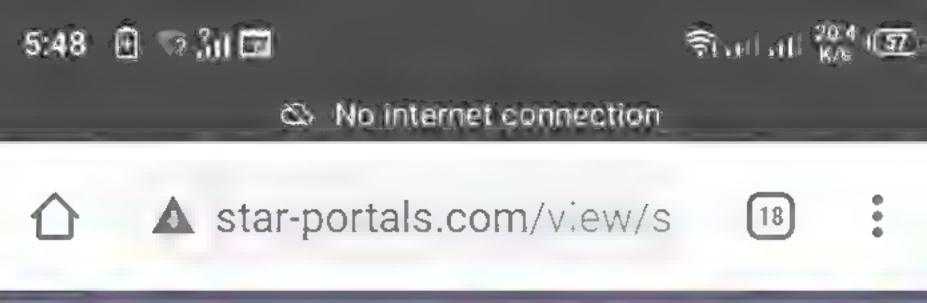
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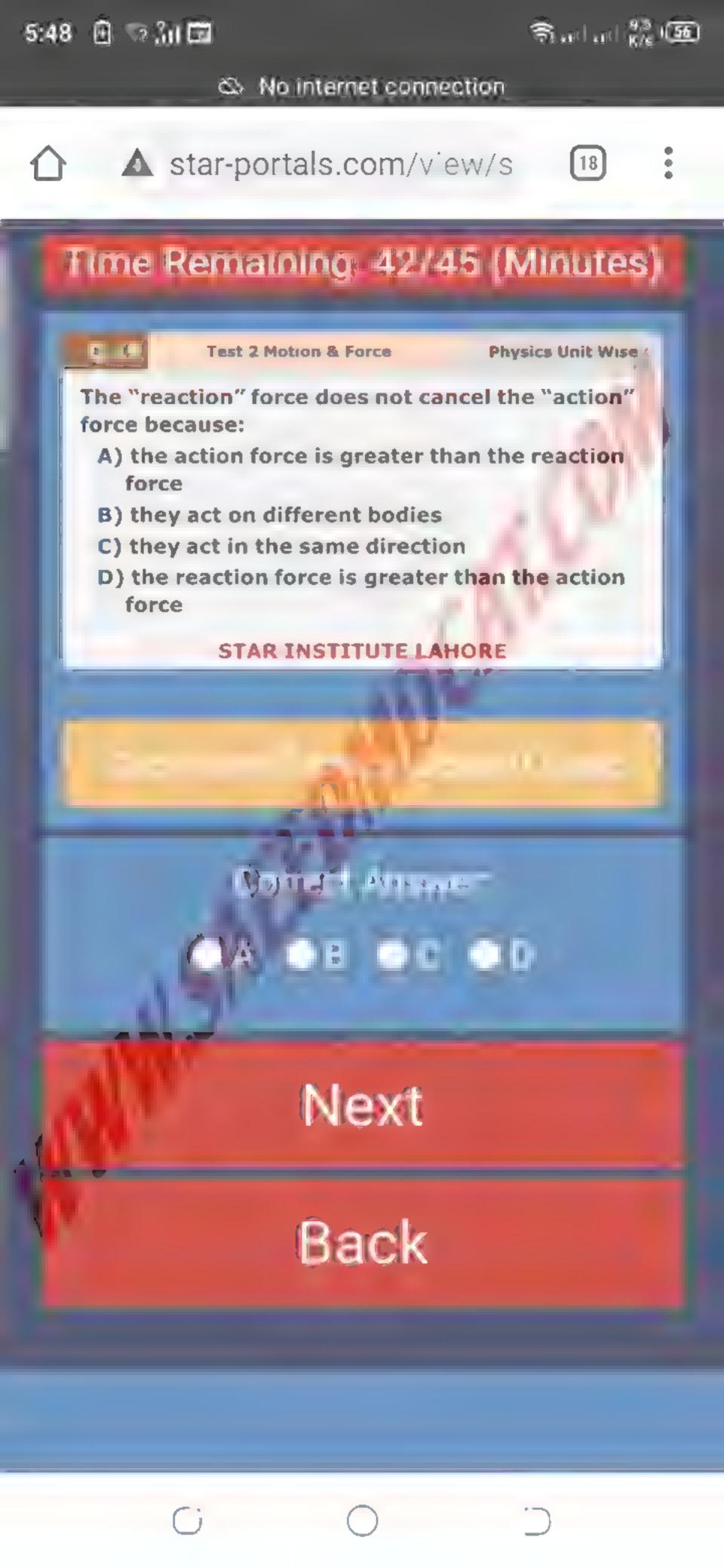








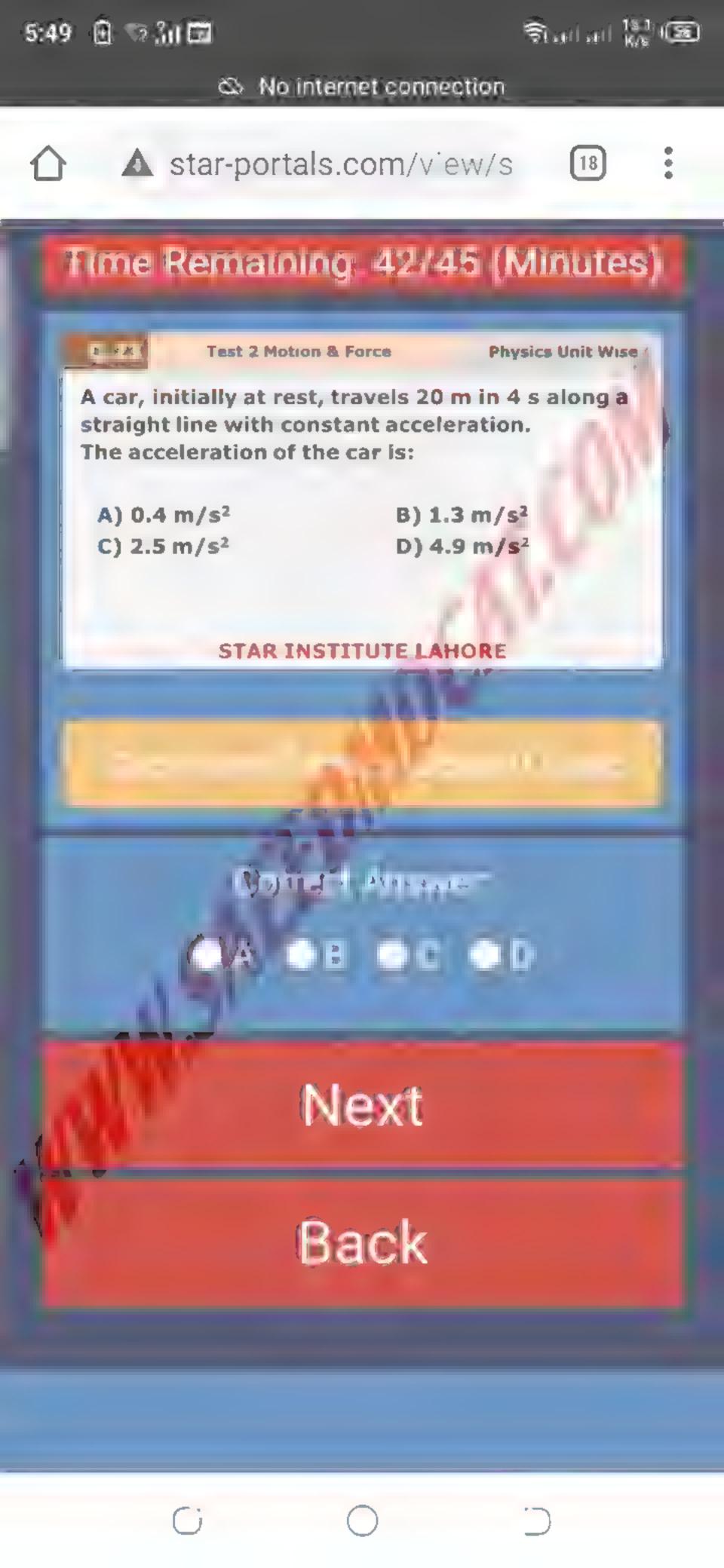






















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## Time Remaining 42/45 (Minutes)

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Test 2 Motion & Force

Physics Unit Wise

The distance covered by a body in time "t" starting from rest is

A) at<sup>2</sup>

B)  $\frac{1}{2}$  at<sup>2</sup>

C) 2at2

D)  $\frac{1}{2}$  a<sup>2</sup>t

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#### Time Remaining 42/45 (Minutes)

Test 2 Motion & Force

Physics Unit Wise

The change of position of a body in a particular direction is called its:

- A) Displacement
- **B) Velocity**
- C) Acceleration
- D) Force

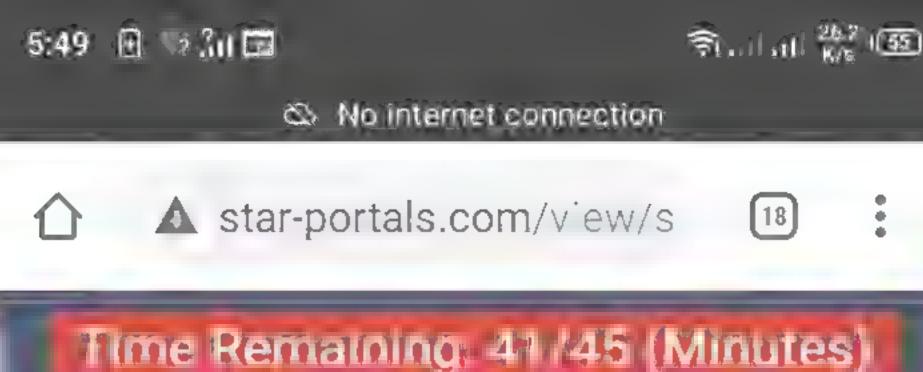
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1 Hypoteneous ) = 140) + 1305 1600 1900 = 250 Hyp = 1/2500 = 50 Distance = 76 = [164] MCD #b MP = Force independent of given times and mass in the gues Storoment MCD# It Stop of Jou some uske F = ma = (20)(50) F= 30x56 = 30x16 = 300N) a= = 2F - 2x366 2 # 12 = 10m3 L] find resultent force 6NI angle 6/4 3N and 4N Routh 10=2

So we use populations moren 13N) + L4N) = 1918 = 15N7 Pesultant Force = 5N. acceles chon MCQ # 14 [F=100] P= U, 51,20 ) => 4= 10×40 = 400 SIN 2(30°) menly equal to / 2/mil MCQ#15 -ive slope 10790] acceleratio = At uniform Streation

MCR # 26 MCQ #19 Henisontal line 0 = stop So acceleration =0 MC + 22 MCO # 21 MCD#23 S= 4,11, cd 4=6 S- 1 9/ - 9- 25 = 280 MCO # 24 15 1 total time - 25 To reach mer beight - time = 15 for height = 10 91 = 10x 1 = 15m] MCO # 25 P - 15 Shizo / par sinizo) MO = 26 S = 41 1 1 1 1 1 =0 1 S= 10+ to #27 Change in Position - Displacement
( Book ki line hai) MCO # 29